

ROYAL BOTANIC GARDENS, KEW.

BULLETIN
OF
MISCELLANEOUS INFORMATION.

No. 10]

[1924

XLII.—ON THE FLORA OF THE GALLIPOLI PENINSULA.*

W. B. TURRILL.

ILLECEBRACEAE.

Herniaria incana Lamk. Encycl. iii. 124 (1789).

Anzac, 22.5.23, Kett 44; near Gaba Tepe, close to the beach, 10.6.23, Ingoldby 317.

Distr. V. and XII. 2, 2a, 3, 3a, 3b, 4, 5, 6, 6a, 7, 7a, 8, 8a, 9, 10, 11, 12, 13, 14, 15, 16.

Paronychia macrosepala Boiss. Diagn. Ser. I. iii. 11 (1843).

Near Gaba Tepe, close to the beach, 10.6.23, Ingoldby 312.
Distr. VI. 1, 2, 2a.

CHENOPODIACEAE.

Atriplex portulacoides L. Sp. Pl. 1053 (1753).

Suvla, on the sand dunes, 5.8.23, Ingoldby 541.
Distr. II. 1, 2, 2a, 3, 4a, 5, 6a, 6b, 7, 8a, 11, 14, 15, 16.

Salicornia fruticosa L. Sp. Pl. ed. 2, 5 (1762).

Suvla, salt marsh, 8.6.23, Ingoldby 291.
Distr. I. 1, 2, 2a, 3, 4, 4a, 5, 6a, 7, 13, 14, 16.

Salsola kali L. Sp. Pl. 222 (1753) var. *glabra* Detharding
Consp. Pl. Megalop. 25 (1828).

Near Gaba Tepe, close to the beach, 10.6.23,* Ingoldby 314.
Distr. (of species) III. 1, 2, 2a, 3, 4, 4a, 6, 6a, 7, 8, 8a, 9, 10, 11, 13, 14, 15, 16.

S. kali L. var. *hirsuta* Hornem. Oec. Plant. ed. 3, i. 293 (1821) non vidi; C. E. Salmon in Moss, Cambr. Brit. Flora ii. 185 (1914).

Near Gaba Tepe, close to the beach, 10.6.23, Ingoldby 318.
Distr. Throughout the distributional area of the species as a whole.

* Continued from K.B. 1924, p. 363.

POLYGONACEAE.

Polygonum maritimum L. Sp. Pl. 361 (1753).

Near Gaba Tepe, close to the beach, 10.6.23, *Ingoldby* 313 ;
Kara Kova Dere, on the beach, 30.7.23, *Ingoldby* 509.
Distr. I. 1, 2, 2a, 3, 4, 4a, 5, 6a, 7, 8, 8a, 9, 11, 14, 16.

P. tenuiflorum Presl in Delic. Prag. 67 (1822) non vidi.

Kara Kova Dere, on stream bank in the shade, 30.7.23,
Ingoldby 527.
Distr. VI. 9.

The above name has been given to this plant with some hesitation. The original description is not available at Kew, but that given by Lojaccono, *Flora Sicula* ii. 2, 303 (1907), agrees well with our specimen, but it is not very full. Boissier, in *Flor. Or.* iv. 1030 (1879), reduces the species to *P. lapathifolium* with the remark "forma spicis tenuioribus." In Ascherson and Graebner's *Synopsis* iv. 817 (1913) it is suggested with a question mark that this species is *P. nodosum* Pers. var. *laxum* (Reichb.), which it is further suggested may be a hybrid between *P. nodosum* and *P. hydropiper*. Our plant has more slender spikes than those shown in Reichenbach's figure in *Ic. Pl. Crit.* v. t. cccxcii. (1827). In Fiori e Paoletti, *Fl. Anal. d'Ital.* i. 294 (1898) the species is reduced to *P. lapathifolium* α *typicum* e *tenuiflorum*.

A specimen from Bunarbaschi, ad ripas Scamandri fl., collected by P. Sintenis, Nr. 1037, 12.9.1883, and determined as *P. nodosum* by Ascherson, is at Kew and agrees very closely with the specimen from the Gallipoli Peninsula, except in the absence of blotches on the leaves and dots on the stem, these being present in the latter. *P. tenuiflorum* has been recorded also from the Danube Delta, between Roşu and Caraorman (on Plav), by Miss Pallis in *Journ. Linn. Soc.* xliii. 280 (1916). A specimen from south of Sulina, collected by Miss Pallis, is at Kew, and agrees closely with our plant.

Rumex acetosella L. Sp. Pl. 338 (1753).

Kilia, 24.4.24, *Durham* 20.
Distr. I. 1, 2, 2a, 3, 3a, 3b, 4, 4a, 5, 6, 6a, 6b, 7, 8, 8a, 8b, 9, 10, 10a, 11, 12, 13, 14, 15, 16.

R. acetosella L. var. **multifidus** DC. in Lamk. et DC. *Fl. Franc.* ed. iii. 378 (1805). *R. multifidus* L. Sp. Pl. ed. 2, 482 (1762).

Near Gaba Tepe, close to the beach, 10.6.23, *Ingoldby* 322.
Distr. Often with or replacing other varieties, especially in the Mediterranean Region.

R. tuberosus L. Sp. Pl. ed. 2, 481 (1762).

Suvla, 24.4.24, *Durham* 87.
Distr. V. 1, 2, 2a, 3, 3a, 6a, 7, 9, 14.

THYMELAEACEAE.

Thymelaea tartonraira All. *Fl. Pedem.* i. 133 (1785). *Daphne tartonraira* L. Sp. Pl. 356 (1753).

Kilia, abundant on dry open hillsides, 19-22.4.23, *Ingoldby* 36; a common low growing shrub in the western parts of the Peninsula, 24.4.24, *Durham* 72.

Distr. VI. 2, 2a, 7.

ELAEAGNACEAE.

Elaeagnus angustifolia L. Sp. Pl. 121 (1753).

Anzac, 25 to 30 feet in height, in flower May 1923, *Kett* 17, common throughout the Peninsula, especially in waddies; Eski Keui, 3.6.23, *Ingoldby* 284; Kara Kova Dere, Aug. 1923, *Ingoldby* 563; Suvla and Anzac, 16.5.24, *Kett* 153.

Distr. III. 2, 2a, 4a, 6, 6a, 7, 8, 9, 14, 15.

SANTALACEAE.

Osyris alba L. Sp. Pl. 1022 (1753).

Sari Bahr, 27-28.5.23, *Ingoldby* 235; Angadere, grows to 4 or 5 feet in height, in flower and fruit, 24.7.23, *Ingoldby* 464; Suvla and Anzac, 16.5.24, *Kett* 89, 123.

Distr. VI. 1, 2, 2a, 3, 4, 4a, 5, 6a, 6b, 7, 8a, 11, 13, 14, 15, 16.

Thesium Bergeri Zuccar. Pl. Nov. in Abh. Akad. Muench. ii. 324 (1837).

Kilia, inconspicuous yellowish flowers, 24.4.24, *Durham* 102.

Distr. X. 1, 2, 2a, 4, 6.

EUPHORBIACEAE.

Euphorbia aleppica L. Sp. Pl. 458 (1753).

Boghali, 30.6.23, *Ingoldby* 394.

Distr. XI. but west to Italy. 2, 2a, 3, 6, 6a, 7, 8a, 14.

E. biglandulosa Desf. Choix Pl. 88, t. 67 (1808).

Kilia, 18.7.23, *Ingoldby* 454.

Distr. X. 1, 2, 7.

E. chamaesyce L. Sp. Pl. 455 (1753).

Kilia, 30 m., rocky ground, in flower and fruit, 22.5.23, *Kett* 56; Kilia, 8.7.23, *Ingoldby* 404; Angadere, on the beach, 28-29.7.23, *Ingoldby* 499.

Distr. V. and XIV. 1, 2, 2a, 3, 4, 5, 6a, 7, 8, 8a, 9, 10, 11, 13, 14, 15, 16.

E. falcata L. Sp. Pl. 456 (1753) var. ?

Angadere, on dry flat hill-tops, 150 m., 21.7.23, *Ingoldby* 423.

Distr. V. and XII. 1, 2, 2a, 3, 3b, 5, 6, 6a, 7, 8, 8a, 8b, 9, 10, 11, 12, 13, 14, 15, 16.

This plant does not belong to the common variety of the species. The mucro of the inflorescence leaves is very short. I am not sure of any varietal name for it, but plants named var. *galilaea* Boiss. in the Kew Herbarium approach it very closely. Boissier in Flor. Or. iv. 1111 (1879), however, describes the seeds as having "sulci abbreviati ad foveolas reducti," while the seeds in our plants have the furrows fully developed. The specimens are attacked by *Melampsora Euphorbiae* Cast.

E. glareosa *Pall.* ex M. B. Fl. Taur.-Cauc. i. 373 (1808).

Maidos, 14.7.23, *Ingoldby* 371.

Distr. XIII., XIV. and XIVA. 6, 7, 8, 8a, 9, 10.

E. paralias *L.* Sp. Pl. 458 (1753).

Kara Kova Dere, salt marsh, 30.7.23, *Ingoldby* 524.

Distr. VI. 1, 2, 2a, 4a, 5, 6a, 7, 9, 14, 15, 16.

E. peplis *L.* Sp. Pl. 455 (1753).

Angadere, on the beach, 29.7.23, *Ingoldby* 494.

Distr. VI. and W. Europe. 1, 2, 2a, 3, 5, 6a, 7, 8, 8a, 9, 14, 15, 16.

E. Seguierana *Neckr.* in Act. Akad. Theod. Pal. ii. 493 (1770).

E. Gerardiana *Jacq.* Fl. Austr. v. 17, t. 436 (1778).

Suvla and Anzac, 16.5.24, *Kett* 139.

Distr. III. 2, 3b, 4, 5, 6, 6a, 7, 8, 9, 10, 11, 16.

PLATANACEAE.

Platanus orientalis *L.* Sp. Pl. 999 (1753).

Kilia, in fruit, Nov. 1922, *Kett* 72.

Distr. XI. 1, 2, 2a, 3, 5, 6, 6a, 7, 8a, 8b.

CUPULIFERAE.

Quercus aegilops *L.* Sp. Pl. 996 (1753.)

Eski Keui, top of Kilia valley, Aug. 1923, *Ingoldby* 569 ; near Kilia, *Ingoldby* 570, 571 ; Suvla, in flower, 24.4.24, *Durham* 44.

Distr. XI. 1, 2, 2a, 4, 5, 7, 11.

Q. aegilops *L.* var. **macrolepis** *Boiss.* Fl. Or. iv. 1171 (1879).

Q. macrolepis *Kty.* Eich. t. 16 (1859).

Suvla, with ripe fruit 20.10.22, *Kett* 64, a nicely shaped tree, with well-developed stem about 20 feet in height ; Yalova, very young fruits, 8.7.23, *Ingoldby* 412 ; Kilia, Aug. 1923, *Ingoldby* 568.

Distr. Here and there with other varieties.

The cups are used for tanning by the Turks.

The distinguishing feature of this variety is the recurved cupular scales, but I doubt if the character is of much taxonomic value.

Q. coccifera *L.* Sp. Pl. 995 (1753).

Anzac, Aug. 1923, *Ingoldby* 571 ; Angadere, Aug. 1923, *Ingoldby* 572 ; common throughout the Peninsula, 6 to 12 feet in height, *Kett* 1, 2.

Distr. VI. 1, 2, 2a, 3a, 4, 4a, 5, 6, 6a, 6b, 7, 7a, 8b, 11, 14, 16.

There is a considerable range of expression of the characters shown by the specimens included in this species from South-East Europe. The various attempts to divide or subdivide the species have not been markedly successful, and until considerable and extensive field-work has been carried out on it further taxonomic suggestions had best remain unpublished.

Q. pedunculiflora *C. Koch* in *Linnaea* xxii. 324 (1849).

Near Angadere, not far from the sea, *Ingoldby* 567.

Distr. XIX. and to Caucasus. 2, 3, 3a, 3b, 4a, 5, 7.

SALICACEAE.

Salix alba *L.* *Sp. Pl.* 1021 (1753).

Suvla and Anzac, 16.5.24, *Kett* 114.

Distr. II. 1, 2, 2a, 3, 3b, 4, 5, 6, 6a, 7, 8, 8a, 8b, 9, 10, 11, 12, 13, 14, 15, 16.

ORCHIDACEAE.

Anacamptis pyramidalis *Rich.* in *Mém. Mus. Par.* iv. 55 (1818),

var. **brachystachys** *Boiss.* *Fl. Or.* v. 57 (1884). *Orchis*

brachystachys d'Urv. in *Mém. Soc. Linn. Par.* i. 377 (1822).

Kilia, on dry hills, 4.5.23, *Ingoldby* 139.

Distr. (of var.) X. 1, 2, 2a, 3b, 7, 14.

Cephalanthera alba *Simk.* *Enum. Fl. Trans.* 504 (1886). *Epipactis alba* *Cr.* *Stirp. Austr.* vi. 460 (1769).

Kilia, in patches, growing best in the protection of fairly thick low scrub on dry hills, 4.5.23, *Ingoldby* 138; Kilia, 24.4.24, *Durham*.

Distr. VI. and XII. 2, 3b, 4, 5, 6a, 8, 8b, 9, 10, 11, 12, 13, 14, 15, 16.

C. cucullata *Boiss. et Heldr.* *Diagn. Ser. I.* xiii. 12 (1853).

Near Anzac, 180 m., rare, 25.4.23, *Ingoldby* 167; Suvla and Anzac, 16.5.24, *Kett* 94.

Distr. XI. 1.

C. longifolia *Fritsch* in *Oesterr. Bot. Zeitschr.* xxxviii. 81 (1888). *Serapias longifolia* *Huds.* *Fl. Angl.* 341 (1762).

Cephalanthera ensifolia *Rich.* in *Mém. Mus. Par.* iv. 60 (1818).

Kilia, 19-22.4.23, *Ingoldby* 57; western slopes of Achi Baba, 23-24.4.23, *Ingoldby* 87.

Distr. III. 2, 3, 6, 6a, 7, 8, 8b, 10, 11, 12, 13, 14, 15, 16.

Helleborine atropurpurea *Schinz et Thell.* in *Mitt. Bot. Mus. Zürich* xlv. 588 (1909). *Epipactis atropurpurea* *Rafin.* *Car.*

87 (1810). *E. atropurpurea* *Schult.* *Österr. Flor. ed.* 2, i. 58 (1814).

Angadere, 120 m., 24.7.23, *Ingoldby* 466; Kara Kova Dere, 30 m., 30.7.23, *Ingoldby* 526.

Distr. V., XII. and XVIII. 2, 5, 6a, 8b, 10, 11, 12, 13, 16.

Ophrys cornuta *Stev.* in *M. B. Fl. Taur.-Cauc.* ii. 370 (1808),

Ophrys oestriifera *M. B.* var. *cornuta* *Boiss.* *Fl. Or.* v. 80 (1884).

Anzac, common, 25.4.23, *Ingoldby* 114; in flower at Kew, 22.5.24, tubers sent from Gallipoli Peninsula by *Lt.-Col. A. C. H. Gray*.

Distr. XIX. 1, 2, 2a, 4, 4a, 6, 6a, 7, 8, 8a, 10, 11, 12, 13, 14, 16.

O. fusca *Link* in *Schrad. Journ.* ii. 324 (1799).

Angadere, common, growing best in moist shady localities, early April, *Ingoldby* 3.

Distr. V. 1, 2, 2a, 4a, 5, 6a, 7, 11, 14, 16.

O. fusca Link var. **iricolor** Reichb. Ic. xiii. 74 (1851). *O. iricolor* Desf. Choix Pl. 6, t. 3 (1808).

Tubers sent from Gallipoli Peninsula by Lt.-Col. A. C. H. Gray, in flower at Kew, 22.5.24.

Distr. Here and there throughout the distributional area of the species.

O. lutea Cav. Ic. et Descript. ii. 46, t. 160 (1793).

Suvla, the earliest orchid to flower, middle of March, *Ingoldby* 4; and a living specimen in flower at Kensington, 25.4.24, from a tuber brought home from Gallipoli Peninsula.

Distr. VI. 1, 2, 2a, 4a, 6a, 7, 14.

O. mammosa Desf. Choix Pl. 5, t. 2 (1808).

Boghali, early April, *Ingoldby* 1; Helles, 23.4.24, *Durham* 5; tubers sent from Gallipoli Peninsula by Lt.-Col. A. C. H. Gray, in flower at Kew, 22.5.24.

Distr. VI. 1, 2, 2a, 3, 4a, 6a, 7, 8, 14, 16.

O. oestriifera M. B. Fl. Taur.-Cauc. ii. 369 (1808). *O. scolopax* Ch. et B. Fl. Pelop. 62, t. 34, f. 7, vix Cav. Ic. et Descript. ii. 46, t. 161 (1793).

Kilia, common on dry hillsides where it grows best in the protection of low scrub, middle of April, *Ingoldby* 31; tubers sent from Gallipoli Peninsula by Lt.-Col. A. C. H. Gray, in flower at Kew, 22.5.24.

Distr. XI. 2, 7.

O. speculum Link. in Schrad. Journ. ii. 324 (1799).

Helles, local, 23-24.4.23, *Ingoldby* 86.

Distr. V. 1, 2, 7.

O. tenthredinifera Willd. Sp. Pl. iv. 67 (1805).

Helles, local, 23-24.4.23, *Ingoldby* 81.

Distr. VI. 1, 2, 2a, 14.

Orchis coriophora L. Sp. Pl. 940 (1753) var. **fragrans** Boiss. Voy. Bot. Esp. ii. 593 (1845). *O. fragrans* Poll. Elem. Bot. ii. 155 (1811) non vidi; Hal. Consp. Fl. Gr. iii. 168 (1904).

Suvla, 27-28.5.23, *Ingoldby* 239; tubers sent from Gallipoli Peninsula by Lt.-Col. A. C. H. Gray, in flower at Kew, 7.7.24.

Distr. (of species) V. and XII. 2, 3b, 4a, 5, 6a, 7, 8, 8a, 8b, 9, 10, 11, 12, 13, 14, 15, 16.

One of the specimens has flowers with relatively short lips, whose lobes are paler than normally and with broad streaks of dull green, while the spurs only just attain the length of the labella. The Vanilla-like odour is very faint.

O. morio L. Sp. Pl. 940 (1753).

Helles, 23-24.4.23, *Ingoldby* 88.

Distr. III. 2, 2a, 3b, 4a, 5, 6, 6a, 7, 8, 8a, 9, 10, 10a, 11, 12, 13, 14, 15, 16.

O. morio *L.* var., or hybrid with this species for one of the parents.

Angadere Bijich Yakajik Tepe, local, 29.4.23, *Ingoldby* 122.

The flowers are decidedly larger and the lip of a somewhat different shape from that of common *O. morio*, but the specimen is certainly to be included within the same group.

O. morio *L.* var. **picta** *Reichb.* Ic. xiii. 17, t. 13 (1851). *O. picta* Lois. Fl. Gall. ed. 2, ii. 263 (1828).

Suvla, 24.4.24, *Durham* 42.

Distr. (of var.) VI. 2, 2a, 3, 3b, 4a, 5, 6, 6a, 7, 8a, 10, 12, 13, 14, 16.

O. sepulchralis *Boiss. et Heldr.* Diagn. Ser. I. xiii. 10 (1873).

O. punctulata *Stev.* in *Lindl. Orch.* 273 (1835) β *sepulchralis* *Reichb.* Ic. Fl. Germ. xiii.-xiv. 27 (1851).

Suvla, yellow flowers, 23.4.24, *Durham* 31.

Distr. X. 7.

O. simia *Lamk.* Fl. Fr. iii. 507 (1778).

Angadere, only found among scrub, early April, *Ingoldby* 2; tubers sent from Gallipoli Peninsula by *Lt.-Col. A. C. H. Gray*, in flower at Kew, 22.5.24.

Distr. IV. and XI. 1, 2, 6a, 7, 8, 8a, 9, 10, 11, 12, 13, 14, 16.

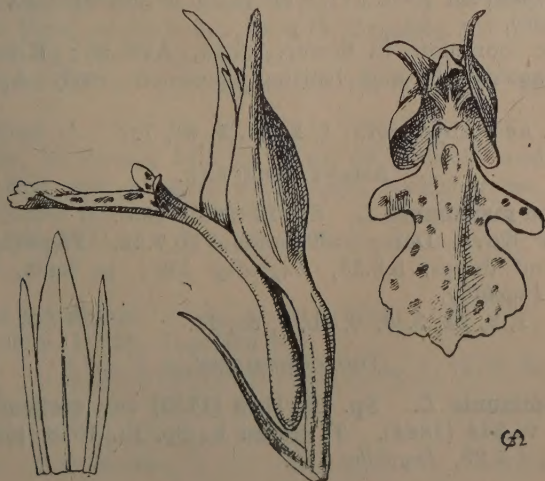
O. tridentata *Scop.* Fl. Carn. ed. 2, ii. 190 (1772).

Helles, 23-24.4.23, *Ingoldby* 85; Suvla, 24.4.24, *Durham* 37.

Distr. VI., XII. and XVIII. 1, 2, 4a, 6, 6a, 7, 8, 8a, 9, 10, 11, 12, 13, 14, 15, 16.

O. tridentata *Scop.* var. **chersonesensis** *Turrill* var. nov.; floribus parvis, labelli lobo medio apiculato, lobis lateralibus angustis haud spatulatis, truncatis vel dentatis.

Tubers sent from Gallipoli Peninsula by *Lt.-Col. A. C. H. Gray*, in flower at Kew 22.5.24.



IRIDACEAE.

Crocus aureus *S. et S.* Prodr. i. 24 (1806); Fl. Gr. t. 35 (1806).

Kilia, in scrub, early April, *Ingoldby* 16; Helles, Feb. 1924, *Kett* 136.

Distr. XIX. and to Hungary and Asia Minor. 6, 6a, 6b, 7, 8, 8a, 9, 10.

C. sativus *L.* Sp. Pl. 36 (1753) var. **Pallasii** *G. Maw* in Gard. Chron. New Ser. xvi. 430 (1881). *C. Pallasii* *M.B.* Fl. Taur.-Cauc. iii. 35 (1819).

Anzac, Suvla and Helles, in flower from Oct. to Dec. 1922, *Kett* 67.

Distr. (of var.) XIX. to lower Italy and Crimea. 7, 8, 8a, 8b, 9, 13, 14.

Gladiolus segetum *Ker-Gawl* in Bot. Mag. t. 719 (1804).

Maidos, cliff face, 18.5.23, *Ingoldby* 206; corms from Gallipoli Peninsula, cultivated by Lt.-Col. Durham and in flower in his garden at Kew, 5.5.24.

Distr. V. 1, 2, 2a, 4, 4a, 6a, 7, 8a, 11, 12, 13, 14, 15, 16.

Iris mellita *Janka* in Mag. Tud. Akad. Math. Termész. Közl. xii. 172 (1874), non vidi, et in Termész. Füz. I. iv. (1877).

Suvla, flowers dark purple, Nov. 1922, *Kett* 68; Angadere, early April 1923, *Ingoldby* 21; Suvla, yellow- and blue-flowered plants, *Durham* 68; rhizomes sent from Gallipoli Peninsula by Capt. *Ingoldby*, in flower at Kew, June 1924.

Distr. XIX. 6, 6a, 7, 8, 8a, 8b.

I. sisyrinchium *L.* Sp. Pl. 40 (1753).

Angadere, early April 1923, *Ingoldby* 22; Kilia, sky blue flowers with white blotches on the falls, 24.4.24, *Durham* 98.

Distr. V. 1, 2, 2a, 4a.

Romulea Linaresii *Parl.* Fl. Panorm. i. 38 (1839) et Fl. Ital. iii. 246 (1858).

Anzac, common, in flower, 7.3.23, *Kett* 58; Kilia, early March, *Ingoldby* 7, and fruiting specimens early April and 15.5.23.

Distr. VI. and Abyssinia. 1, 2, 2a, 3, 6a, 7.

AMARYLLIDACEAE.

Pancratium maritimum *L.* Sp. Pl. 291 (1753).

Kara Kova Dere, salt-marsh, 30.7.23, *Ingoldby* 523; Suvla, sand dunes, 5.8.23, *Ingoldby* 539; in fruit, without locality, *Ingoldby*.

Distr. V. 1, 2, 2a, 3, 5, 6, 6b, 7, 8a, 14.

DIOSCOREACEAE.

Tamus communis *L.* Sp. Pl. 1028 (1753) var. **creticum** *Boiss.*

Fl. Or. v. 344 (1884). *T. cretica* *L.* Sp. Pl. 1028 (1753).

Kilia, 4.5.23, *Ingoldby* 150.

Distr. (of species) IV. and V. 1, 2, 2a, 3, 3a, 3b, 4, 4a, 5, 6, 6a, 7, 8, 8a, 10, 11, 12, 13, 14, 15, 16.

LILIACEAE.

Allium atrovioleaceum Boiss. *Diagn. Ser. I. vii.* 112 (1846) et *Fl. Or. v.* 240 (1884).

Near Gaba Tepe, in a gorge with thick vegetation and where the ground was fairly moist, *Ingoldby* 306; Maidos, 14.7.23, *Ingoldby* 376.

Dist. XI. 6a, 8a.

A. margaritaceum S. et S. *Prodr. i.* 224 (1806) et *Fl. Gr. t.* 315 (1823).

Angadere, in open oak scrub, 27.7.23, *Ingoldby* 481.

Distr. V. 2, 2a, 3, 4, 4a, 5, 6, 6a, 6b, 7, 8, 8a, 8b, 9, 10, 11, 13, 14.

A. paniculatum L. *Syst. Pl. ed. 10,* 978 (1759) et *Sp. Pl. ed. 2,* 428 (1762) var. **pallens** Gren. et Godr. *Fl. France iii.* 209 (1856); Boiss. *Fl. Or. v.* 260 (1884). *A. pallens* L. *Sp. Pl. ed. 2,* 427 (1762).

Angadere, 22-24.7.23, *Ingoldby* 451.

Distr. (of species) III. 2, 2a, 3, 3b, 4a, 5, 6, 6a, 7, 8, 8a, 8b, 9, 10, 11, 12, 13, 14, 15, 16.

The Linnean *A. pallens* is retained by Halácsy, *Consp. Fl. Gr. iii.* 256 (1904), as a species, and all the Greek plants he quotes are placed under the variety *Coppolieri* (Tin.) Parl. Our plant comes very near to specimens from Greece and from Sicily, but has very short spathes. The solitary specimen is insufficient for deciding whether or not there is a distinct geographical race in the Gallipoli Peninsula.

A. pulchellum G. Don in *Mem. Wern. Soc. vi.* 46 (1827).

Gaba Tepe, on the beach, 10.6.23, *Ingoldby* 307; Angadere, in fruit, 22-24.7.23, *Ingoldby* 444.

Distr. V. and XIVa. 3, 6, 6a, 8a, 8b, 10, 11, 12, 13, 14, 15, 16.

A. rotundum L. *Sp. Pl. ed. 2,* 423 (1762).

Helles, in flower, 14.5.23, *Kett* 62; Suvla and Anzac, 16.5.24, *Kett* 102, a plant with small pinkish-green flowers, apparently not normally developed.

Distr. V. and XIII. 1, 2, 2a, 3, 6, 6a, 6b, 7, 7a, 8, 8a, 9, 10, 13, 14, 16.

Asparagus acutifolius L. *Sp. Pl.* 314 (1753).

Angadere, 1.7.23, *Ingoldby* 355.

Distr. VI. 1, 2, 2a, 3, 3a, 3b, 4, 4a, 5, 6, 6a, 7, 7a, 8, 8a, 11, 13, 14, 15, 16.

A. aphyllus L. *Sp. Pl.* 314 (1753).

Distr. VI. 1, 2, 2a, 6a.

Colchicum bulbocodioides *M. B.* Fl. Taur.-Cauc. i. 293 (1808);
C. montanum Boiss. Fl. Or. v. 164 (1884) pro parte, non *L.*
Sp. Pl. 342 (1753).

Suvla and Helles, Feb. 1924, *Kett* 130, 135.

Distr. VI. and XIII. 2, 8, 8a, 8b, 9.

Fritillaria pontica *Wahl.* in *Isis* xix. 984, non vidi, et in *Berggr.*

Resor ii. Bihang 27 (1826); *Bot Mag.* t. 8865 (1920).

Kilia, rare, early April 1923, *Ingoldby* 8.

Distr. X. 6, 6a, 6b, 7, 8, 8a, 8b.

Gagea peduncularis *Pasch.* in *Beib. Bot. Centrbl.* xx. ii. 76,
 105 (1906).

Kilia, on flat ground, common and abundant, late March
 1923, *Ingoldby* 13; Suvla, Feb. 1924, *Kett* 127.

Distr. VI. 1, 2, 2a, 3, 6a, 7, 8a, 14.

The pedicels of the above plants are not so long as generally
 in this species.

Hyacinthus ciliatus *Cyr.* *Pl. Rar. Neap.* ii. 23, t. 10 (1788),
 non vidi. *Bellevalia ciliata* *Nees* *Gen.* iv. t. 8 (1843).

Bulb collected at Azmak, Angadere valley, in flower 17.4.24
 in the garden of Major W. M. J. Martin, Warminster; Kilia,
 24.4.24, *Durham* 12.

Distr. V. 2, 6a.

Muscari comosum *Mill.* *Gard. Dict.* ed. 8 (1768).

Kilia, common on dry hillsides, 2-3.4.23, *Ingoldby* 133;
 between Sogaule Dere and Jam Baz Dere, 8-11.5.23, *Ingoldby*
 189.

Distr. V. 1, 2, 2a, 3, 4, 5, 6, 6a, 7, 8, 8a, 8b, 9, 10, 10a, 11, 12,
 13, 14, 15, 16.

M. neglectum *Guss.* in *Ten. Fl. Neap. Syll. app.* v. 13 (1831).

Bulb collected at Azmak, Angadere valley, in flower 10.4.24
 in the garden of Major W. M. J. Martin, Warminster.

Distr. VI. 2, 3, 4, 6, 6a, 7, 8a, 10, 11, 12, 13, 14, 15, 16.

Ornithogalum fimbriatum *Willd.* in *Ges. Naturf. Fr. Neue.*
Schr. iii. 420 (1801), non vidi; *Hal. Consp. Fl. Gr.* iii. 235
 (1904).

Kilia, common and abundant, early April 1923, *Ingoldby*
 17a.

Distr. X. 2, 6a, 7, 8.

O. narbonense *L.* *Amoen. Acad.* iv. 312 (1759).

Anzac, rare, in very hard ground, 27-28.5.23, *Ingoldby* 241;
 Suvla and Anzac, 16.5.24, *Kett* 103.

Distr. VI. 1, 2, 2a, 3, 3b, 6a, 7, 8, 8a, 10, 11, 12, 13, 14, 15, 16.

The plant named *O. pyrenaicum* *L.* (*Durham* 32, 1922) in
 the *Kew Bulletin* 1922, 298, I now consider is *O. narbonense* *L.*,
 with the flowers in a young condition, but I confess that I cannot

always separate *O. narbonense* from *O. pyrenaicum* when only dried specimens are available.

O. nutans L. Sp. Pl. 308 (1753).

Helles, local, 23-24.4.23, *Ingoldby* 97; Kilia, 24.4.24, *Durham* 19.

Distr. XI. 1, 2, 3b, 6, 6a, 6b, 8b, 9, 10.

O. umbellatum L. Sp. Pl. 307 (1753).

Kilia, local, early April, *Ingoldby* 17b; Suvla, 24.4.24, *Durham* 55.

Distr. IV. and VI. 1, 2, 2a, 4a, 6, 6a, 7, 8, 9, 10, 11, 12, 13, 15, 16.

Ruscus aculeatus L. Sp. Pl. 1041 (1753).

Anzac, common, to 2 feet in height, in fruit Nov. 1922, *Kett* 78.

Distr. IV. and XI. 1, 2, 2a, 3, 4, 5, 6, 6a, 7, 7a, 8, 8a, 9, 10, 11, 12, 13, 14, 15, 16.

Tulipa Hageri Heldr. in Gartenfl. xxiii. 97, t. 790 (1874).

Helles, on flat ground above the Lancashire Landing, 23-24.4.23, *Ingoldby* 100, 100a; Helles, 20.4.24, *Durham* 1, 4; Suvla and Anzac, 16.5.24, *Kett* 154.

Distr. XX. 2.

Mr. Dykes tells me that many forms of *T. Hageri* are to be found in Greece. It is doubtful if colour has much taxonomic value in this species.

T. praecox Ten. Fl. Nap. i. 170, t. 32 (1811-1815).

Helles, 16.5.23, *Kett* 6.

Distr. VI. (2), 15.

TYPHACEAE.

Typha angustata Bory et Chaub. Nouv. Fl. Pelop. 4 (1838).

Near Anzac, Aug. 1923, *Ingoldby* 590.

Distr. X. 1, 2, 2a, 3, 4, 4a, 5, 6a, 7, 9, 14.

JUNCACEAE.

Juncus acutus L. Sp. Pl. 325 (1753) var. **Heldreichianus** Heldr.

Chlor. Thera 23, non vidi; Hal. Consp. Fl. Gr. iii. 280 (1904).

Near Anzac, Aug. 1923, *Ingoldby* 592.

Distr. (of species) I. 1, 2, 2a, 4a, 5, 6, 6a, 7, 8, 11, 13, 14, 15, 16.

ARACEAE.

Dracunculus vulgaris Schott Melet. i. 17 (1832) non vidi. *Arum dracunculus* L. Sp. Pl. 964 (1753).

Angadere, in fruit, Aug. 1923, *Ingoldby* 586.

Distr. V. 1, 2, 2a, 3, 4a, 6, 6a, 6b, 7, 11, 14, 15, 16.

CYPERACEAE.

Carex divisa *Huds.* Fl. Angl. 348 (1762).

Suvla, 24.4.24, *Durham* 81.

Distr. IV. and V. and S. Africa. 1, 2, 2a, 3, 3a, 3b, 4, 4a, 5, 6, 6a, 7, 8, 8a, 10, 11, 13, 14, 15, 16.

C. flacca *Schreb.* Spic. Fl. Lips. Appendix, last page but one, nr. 669 (1771) var. **cuspidata** *Turrill* comb. nov. *C. glauca* var. *cuspidata* *Aschers.* et *Gr.* Synops. ii. 2, 138 (1902).

Kilia, 24.4.24, *Durham* 10.

Distr. (of var.) V. 1, 2, 4a, 6a, 7, 12, 14, 15, 16.

Cyperus longus *L.* Sp. Pl. 45 (1753).

Near Anzac, Aug. 1923, *Ingoldby* 594.

Distr. IV. and V. 1, 2, 3, 3b, 4, 4a, 5, 6, 6a, 6b, 7, 8, 8a, 10, 11, 12, 13, 14, 15, 16.

C. rotundus *L.* Sp. Pl. 45 (1753).

Helles, in flower, 16.5.23, *Kett* 57.

Distr. I. 1, 2, 2a, 3, 4, 4a, 5, 6a, 7, 8a, 10, 11, 14.

Scirpus holoschoenus *L.* Sp. Pl. 49 (1753).

Near Anzac, Aug. 1923, *Ingoldby* 591.

Distr. III. and S. Africa. 1, 2, 2a, 3, 3a, 3b, 4, 4a, 5, 6, 6a, 7, 8, 8a, 9, 10, 11, 12, 13, 14, 15, 16.

S. Tabernaemontani *Gmel.* Flor. Badens. i. 101 (1806).

Near Anzac, Aug. 1923, *Ingoldby* 593; Kilia, grows to 5 or 6 feet in height, 24.4.24, *Durham* 23.

Distr. III. 2, 3, 4a, 6, 8, 8a, 9, 10, 11, 12, 13, 14, 16.

GRAMINEAE.

Aegilops ovata *L.* Sp. Pl. 1050 (1753) var. **triaristata** *Cos. et Dur.* Expl. Alg. ii. 211 (1856). *A. triaristata* *Willd.* Sp. Pl. iv. 943 (1805).

Suvla and Anzac, 16.5.24, *Kett* 96, 115, 128.

Distr. (of species) V. 1, 2, 2a, 3, 4, 4a, 5, 6, 6a, 7, 7a.

Agropyrum elongatum *P. de Beauv.* Agrost. 146 (1812). *Triticum elongatum* *Host.* Gram. Austr. ii. 18, t. 23 (1802).

Near Anzac, Aug. 1923, *Ingoldby* 600.

Distr. V. 1, 2, 2a, 3, 6a, 7, 8, 8a, 9, 14, 15, 16.

Agrostis verticillata *Vill.* Prosp. Fl. Dauph. 16, non vidi, et Hist. Pl. Dauph. ii. 74 (1787).

Near Anzac, Aug. 1923, *Ingoldby* 599.

Distr. V. 1, 2, 2a, 4a, 6a, 6b, 7, 8, 8a, 11, 14, 16.

Aira capillaris *Host.* Gram. Austr. iv. 20, t. 35 (1809).

Kilia, 24.4.24, *Durham* 21.

Distr. V. 1, 2, 2a, 3, 3a, 3b, 4, 4a, 5, 6, 6a, 6b, 7, 8, 8a, 8b, 10, 11, 12, 13, 14, 15, 16.

Anthoxanthum odoratum L. Sp. Pl. 28 (1753).Suvla, 24.4.24, *Durham* 76.*Distr.* III. 1, 2, 2a, 3, 3a, 5, 6, 6a, 7, 8, 8a, 8b, 10, 10a, 11, 12, 13, 14, 15, 16.**Avena sterilis** L. Sp. Pl. ed. 2, 118 (1762).Suvla and Anzac, 16.5.24, *Kett* 101.*Distr.* V. 1, 2, 2a, 3, 4, 4a, 7, 13, 14, 15, 16.**Bromus hordeaceus** L. Sp. Pl. 77 (1753) var. **molliformis** Hal. Consp. iii. 396 (1904).Kilia, 25.4.24, *Durham* 117.*Distr.* (of species) III. 1, 2, 2a, 3, 3b, 4, 4a, 5, 6, 6a, 6b, 7, 8, 8a, 8b, 9, 10, 11, 12, 13, 14, 15, 16.

I am not satisfied that the plants of the Eastern Mediterranean Basin are the same as the Western European *B. molliformis* Lloyd.

B. madritensis L. Amoen. Acad. iv. 265 (1759).Suvla and Anzac, 16.5.24, *Kett* 147.*Distr.* V. 1, 2, 2a, 3, 4, 4a, 6a, 7, 11, 13, 14, 15, 16.**B. scoparius** L. Amoen. Acad. iv. 266 (1759).Suvla, 24.4.24, *Durham* 80.*Distr.* V. 1, 2, 2a, 3, 3b, 4, 4a, 6, 6a, 7, 8a, 10, 16.**B. tectorum** L. Sp. Pl. 77 (1753).Suvla, 24.4.24, *Durham* 78; Suvla and Anzac, 16.5.24, *Kett* 98.*Distr.* V. and XII. 1, 2, 2a, 3, 3b, 4, 4a, 6, 6a, 7, 8, 8a, 9, 10, 12, 14, 15, 16.**Catapodium loliaceum** Link Hort. Berol. i. 45 (1827). *Poa loliacea* Huds. Fl. Angl. ed. 3, 43 (1798).Kilia, 23-24.4.23, *Ingoldby* 108b.*Distr.* V. and W. Europe. 1, 2, 4a, 7, 11, 13, 14, 15, 16.**Cynodon dactylon** Pers. Syn. i. 85 (1805). *Panicum dactylon* L. Sp. Pl. 58 (1753).

Very common in the western parts of the Peninsula, in fruit, Nov. 1922, *Kett* 84; Kilia, June or July 1923, *Ingoldby* 581a.

Distr. I. 1, 2, 2a, 3, 4, 4a, 5, 6, 6a, 7, 8, 8a, 9, 10, 11, 12, 13, 14, 15, 16.**Dactylis glomerata** L. Sp. Pl. 71 (1753), var.Near Anzac, Aug. 1923, *Ingoldby* 597; Kilia, 24.4.24, *Durham* 15; Suvla and Anzac, 16.5.24, *Kett* 106.*Distr.* (of species) II. 1, 2, 2a, 3, 3a, 3b, 4, 4a, 5, 6, 6a, 6b, 7, 7a, 8, 8a, 8b, 9, 10, 10a, 11, 12, 13, 14, 15, 16.

Ingoldby's specimen is a plant with the spikelets crowded together and with the glumes having lines of long hairs on the backs and margins. The other specimens are young but probably belong to the same race or variety.

Erianthus Hostii Griseb. Spic. Fl. Rumel. ii. 548 (1845).

Near Anzac, Aug. 1923, *Ingoldby* 601.

Distr. XIX. 3, 5, 6a, 7, 8, 8a, 9, 10, 11, 14.

Hordeum murinum L. Sp. Pl. 85 (1753).

Suvla and Anzac, 16.5.24, *Kett* 100, 111, 129.

Distr. II. 1, 2, 2a, 3, 4, 4a, 5, 6, 6a, 7, 8, 8a, 9, 10, 11, 12, 13, 14, 15, 16.

This grass is being used in parts of the British Cemeteries on the Gallipoli Peninsula for stabilizing the sand.

H. murinum L. var. **leporinum** Chaub. et Bory Flor. Pelop. 8 (1838). *H. leporinum* Link in Linnaea ix. 133 (1835).

Suvla, 23-24.4.24, *Durham* 84.

Distr. (of var.) V. 1, 2, 2a, 3, 5, 6a, 7, 8, 8a, 10, 11, 13, 14, 15, 16.

Imperata cylindrica P. de Beauv. Agrost. 165 (1812). *Lagurus cylindricus* L. Syst. ed. 10, 878 (1759).

Near Anzac, Aug. 1923, *Ingoldby* 596.

Distr. I. 1, 2, 2a, 3, 4, 4a, 5, 6a, 7, 11, 14, 15, 16.

Lagurus ovatus L. Sp. Pl. 81 (1753).

Helles, 24.5.23, *Kett* 48; Helles, 24.4.24, *Durham* 48.

Distr. VI. 1, 2, 2a, 3, 4, 4a, 5, 6a, 7, 7a, 11, 12, 13, 14, 15, 16.

Lolium rigidum Gaud. Agrost. Helv. i. 334 (1811).

Suvla and Anzac, 16.5.24, *Kett* 95.

Distr. V. 1, 2, 2a, 3, 5, 6, 6a, 7, 8a, 14, 15.

Phleum graecum Boiss. et Heldr. Diagn. Ser. I. xiii. 42 (1853).

Suvla and Anzac, 16.5.24, *Kett* 99.

Distr. X. 1, 2, 2a, 6, 6a, 7, 8a, 10, 11.

P. subulatum Aschers. et Graebn. Synops. ii. i. 154 (1899)

Phalaris subulata Savi Fl. Pis. i. 57 (1798).

Kilia, June or July, 1923, *Ingoldby* 581b.

Distr. V. and XVIII. 1, 2, 2a, 3, 4, 4a, 5, 6, 6a, 7, 8a, 11, 13, 14, 15, 16.

Phragmites communis Trin. Fund. Agrost. 134 (1820). *Arundo phragmites* L. Sp. Pl. 81 (1753).

Near Anzac, Aug. 1923, *Ingoldby* 598.

Distr. I. 1, 2, 2a, 3, 4, 5, 6, 6a, 7, 8, 8a, 9, 10, 11, 12, 13, 14, 15, 16.

Poa bulbosa L. Sp. Pl. 70 (1753) var. **vivipara** Koeler Descr.

Gram. 189 (1802) non vidi; Aschers. u. Graebn. Synops. ii. i. 392 (1900).

Kilia, 23-24.4.24, *Durham* 22; Suvla, 24.4.24, *Durham* 39

Distr. (of species) II. 1, 2, 2a, 3, 3a, 3b, 4, 4a, 5, 6, 6a, 6b, 7, 8, 8a, 8b, 9, 10, 12, 13, 14, 15, 16.

P. bulbosa L. var. ?

Suvla, 24.4.24, *Durham* 33.

P. trivialis L. Sp. Pl. 67 (1753) ? viviparous.

Anzac, 22.4.24, *Durham* 6.

Distr. (of species). III. 1, 2, 2a, 3b, 4, 4a, 5, 6a, 7, 8, 8a, 8b, 9, 10, 11, 12, 14, 15.

Sorghum halepense Pers. Synops. i. 101 (1805). *Holcus halepensis* L. Sp. Pl. 1047 (1753).

Near Anzac, Aug. 1923, *Ingoldby* 595; Suvla and Anzac, 16.5.24, *Kett* 90.

Distr. I. 1, 2, 2a, 3, 4, 4a, 5, 6, 6a, 7, 8, 8a, 9, 10, 11, 12, 13, 14, 15, 16.

Vulpia ciliata Link Hort. Berol. i. 147 (1827). *Festuca ciliata* Danth. in Lamk. et DC. Fl. Fr. iii. 55 (1805).

Kilia, 23-24.4.23, *Ingoldby* 108a.

Distr. V. 1, 2, 2a, 3, 3a, 4, 5, 6, 6a, 7, 8, 8a, 10, 11, 12, 14, 16.

CONIFERAE.

Juniperus oxycedrus L. Sp. Pl. 1038 (1753).

Kilia, Aug. 1923, *Ingoldby* 566.

Distr. VI. 1, 2, 2a, 3, 3a, 3b, 4, 5, 6, 6a, 6b, 7, 7a, 8a, 8b, 10, 11, 13, 14, 15, 16.

Pinus halepensis Mill. Gard. Dict. ed. 8 (1768).

Near Boghali, *Ingoldby* 564; Kara Kova Dere, *Ingoldby* 564a; on Quarry Hill, near Angadere, *Ingoldby* 565; all Aug. 1923.

Distr. VI. 1, 2, 2a, 5, 7, 11, 13, 14.

FILICES.

Adiantum capillus-veneris L. Sp. Pl. 1096 (1753).

Near Suan Dere, found growing on the rocks of the waterfall, Nov. 1922, *Kett* 70.

Distr. I.

XLIII.—DECADES KEWENSES

PLANTARUM NOVARUM IN HERBARIO HORTI REGII CONSERVATORUM.

DECAS CX.

1091. **Draba obscura** Dunn [Cruciferae-Alyssineae]; a *D. gracillima* Hook. f. & Thoms. foliis ovatis petiolatis in caule distantibus floribus albis distincta.

Herba annua, prostrata, laxa, 8-12 cm. longa, glabra. *Caulis* paullo ramosa. *Folia* caulina sparsa; lamina ovata, apice basique obtusa vel basi angustata, 5 mm. longa, petiolo aequalis. *Flores* (fide R. R. Stewart) albi, axillares, solitarii, in racemum 4-5 cm. longum collecti; pedicelli graciles, 0.5-

1 cm. longi. *Siliquae* ascendentes, pedicellatae, lineares, 1-2 cm. longae, stylo 2 mm. longo terminatae; valvae planae, membranaceae, longitudinaliter venosae; septum evanidum vel 0; replum persistens. *Semina* 6-10, biseriata; cotyledones accumbentes.

N.W. INDIA. Kashmir: Sonamarg, usually inconspicuous in damp grassy places at 3000-3500 m., Sept. 1917, *R. R. & I. D. Stewart* 3547.

1092. ***Astragalus Isabellae* Dunn** [Leguminosae-Galegeae-Astragaleae]; a *A. coluteocarpo* Boiss. stipulis magnis distincta.

Frutex ad 2 m. altus, ramosus, mox omnino glaber; rami annotini laeves, erecti, crassi, floribus fructuque ornati. *Folia* pinnata, linearia, 20-30 cm. longa; stipulae liberae, late ovatae, 1.5-2 cm. longae, apice bifurcatae, basi primo breviter vaginantes, mox omnino fissae; petioli breves; foliola 17-21, ovato-oblonga, apice basique obtusa, 3-5 cm. longa, 1-1.3 cm. lata, subsessilia. *Racemi* axillares densiflori, 5 cm. longi, fructu elongati; pedunculi eis aequilongi. *Flores* subsessiles, luteoli vel purpurascens, 2 cm. longi. *Calyx* tubulosus, membranaceus, 7 mm. longus; dentes 5, 3 mm. longi, pilis nigris paucis ornati. *Petala* calycis tubo duplo longiora; vexillum lanceolato-ovatum in unguem angustatum; alae et carinae petala paullo breviores, longe falcatae. *Ovarium* lineare, 5-ovulatum, in stylum glabrum et gynophorum angustatum, *Legumen* lanceolatum, turgidum, 2-3 cm. omnino longum, in rostrum et carpophorum longum angustatum, sutura seminale intrusa in loculos 2 divisum. *Semina* reniformia.

N.W. INDIA. Kashmir; Goorai at 3000 m. 20 July, 1876. *C. B. Clarke*; Pahgam at 3300 m. 9 Aug. and 6 Sept. 1920. *R. R. Stewart* and *Isabel D. Stewart* 5972; Sonamarg at 3100 m. 27 July 1922, *R. R. Stewart* 7201.

1093. ***Cotoneaster humilis* Dunn** [Rosaceae-Pomeae]; a *C. acuminata* Lindl. habitu prostrato, foliis et drupis minoribus distincta.

Frutex deciduus, parvus, prostratus. *Caules* breves, robusti, ramosi, superne appresse hirsuti; cortex rubescens, tandem rugosus, griseus. *Folia* ovata, apice acuta mucronata basi obtusa, 2-3 cm. longa, chartacea, supra glabra, subtus ut pedicelli dentesque calycis laxae lanata; petioli 3-5 mm. longi; stipulae lineares. *Flores* axillares, solitarii vel brevissime racemosi, 5 mm. diam. *Calycis* tubus intra lanatus, 3 mm. longus; lobi 1 cm. longi, mucronati, conniventes. *Petala* spathulata, 2 mm. longa, patula. *Stamina* numerosa. *Drupa* globosa, rubra, 5 mm. diam., 3-4-pyrena.

N.W. INDIA. Kashmir; Sonamarg on rocks at 4000 m. 9 Aug. 1921 *R. R. & I. D. Stewart*.

1094. ***Pimpinella kashmirica* R. R. Stewart ex Dunn** [Umbelliferae-Ammineae]; a *P. Saxifraga* L. foliis triangularibus bipinnatis distincta.

Herba perennis, 30–40 cm. alta, pauciramosa, omnino glabra. *Caulis* striatus. *Folia* radicalia 2–3-pinnata, ambitu triangularia, ad 20 cm. longa, basi late breviter vaginata; lacinae ovatae, apice acutae, 2–3 cm. longae, dentibus lanceolatis, mucronatis; petiolus laminae aequalis. *Umbellae* 1–2, longe pedunculatae; involucri bracteae 0; umbellulae 8–10, radiis 3–4 cm. longis, bracteolis 0. *Flores* albi, 4 mm. diam, *Carpella* tereti-5-gona, oblonga, 3mm. longa, stylis reflexis arcte coronata; juga primaria 5, aequalia; vittae plures, tennes.

N.W. INDIA. Kashmir; Sonamarg at 3–4000 m. July 1921, *R. R. Stewart* 6267; Aug. 1921. *R. R. Stewart* 6331; 25 July 1922, *R. R. Stewart*, 7222; Baltal, Scinde Valley at 3–4000 m. 3 Sept. 1922, *R. R. Stewart*.

1095. ***Pituranthos Stewartii*** Dunn [Umbelliferae-Ammineae]; a *P. Thomsoni* C. B. Clarke fructu 1–2 mm. longo, foliorum laciniis acutis distincta.

Herba perennis, ramosa, late et rigide extendens, 1 m. lata et alta, omnino minute puberula. *Radix* cylindricus. *Caulis* striatus. *Folia* pauca, praecipue infera; radicalia 6–12 cm. longa, bipinnata; segmenta in laciniis lanceolatis acutis irregulariter divisa; petiolus lamina longior; lateralia minora, similia; stipulae obscurae. *Umbellae* parvae, numerosae, 2–3 cm. diam., graciliter pedunculatae; radii 5–6, bracteis brevibus linearibus suffulti. *Umbellulae* similiter constructae. *Flores* 2 mm. diam. *Petala* alba, incurva. *Fructus* ovatus, a latere compressus, 2 mm. longus et latus, pilis brevibus dense hirsutus, stylis brevibus reflexis coronatus; carpella teretia, sub-5-gona; vittae in valliculis solitariae.

N.W. INDIA. Frontier Provinces; Hazara and Punjab, Shapur on dry clay and gravel soils at 4–5000 m. *J. F. Duthie* 7482; *J. R. Drummond* 14411, 14623, 14486, 15070, 15071; *R. R. Stewart* 4109, 5102, 5250, 7508.

1096. ***Campanula tenuissima*** Dunn [Campanulaceae-Campanuleae]; a *C. argyrotricha* Wall. foliis lanceolatis, capsulis basi angustatis distincta.

Herba ad 20 cm. alta, ubique pilis brevibus sparsis aculeolata. *Caules* ex radice plurimi, flexuosi, tenuissimi, breviter strigosi. *Folia* pauca, caulina, sessilia, lineari-lanceolata, apice basique angustata, repando-dentata, sparse pilosa, 1–1.5 cm. longa. *Flores* in paniculam terminalem tenuem multifloram dispositi, 8–10 mm. longi, bracteati. *Calycis* tubus 5 mm. longus, adnatus, turbinatus; limbus tubo aequalis, 5-partitus, dentibus linearibus, sinubus nudis. *Corolla* alba, campanulata, 5 mm. longa, ad dimidium in lacinias lineares 5-fida. *Ovarium* inferum, 3-loculare, placentis multiovulatis; stigma 3-fidum. *Capsula* infera, trigona, ad basin angustata, calycis lobis coronata, lateraliter inter costas valvulis basalibus dehiscens.

N.W. INDIA. Kashmir; Jhelum Valley Road at about 800 m. 28 Aug. 1919, *R. R. Stewart* 5104.

1097. *Rochelia lissocarpa* Dunn [Boragineae-Borageae-Eritrichieae]; a *R. leiocarpa* Ledeb. pedicellis fructu longioribus distincta.

Herba parva, annua, gracilis superne strigosa. *Caules* filiformes, erecti, plerumque simplices, 5–8 cm. alti, breviter strigosi. *Folia* alterna, pauca, sessilia, linearia, 5–8 mm. longa, ut sepala scabro-hispida. *Flores* supra folia racemosi, ebracteati. *Sepala* 5, post anthesin incurvo-cancellata, linearia, 3–4 mm. longa. *Corollae* tubus cylindraceus, 1 mm. longus, rectus, fauce intus nuda, 5-dentatus. *Stamina* 5, brevia, tubo affixa, inclusa. *Ovarium* 2-loculare. *Stylus* brevis, inclusus, stigmatibus bilobis capitatus. *Nuculae* 2, 1-spermae, erectae, pyriformes, nitentes, laeves, 2–3 mm. longae, columnae fere ad apicem affixae.

N.W. INDIA. Kashmir; Purana Tilel at 3000 m. 3 July 1919, *R. R. Stewart* 4398.

1098. *Scutellaria teucრიifolia* Dunn [Labiatae-Stachydeae]; a *S. alpina* L. foliis regulariter crenatis distincta.

Suffrutex parvus, superne ubique breviter hirsutus. *Caules* numerosi, ascendentes, 8–10 cm. alti; *Folia* ovata vel oblongo-ovata, apice basique obtusa, 1–1.5 cm. longa, ambitu toto crebre crenata; petioli inferiores dimidio laminarum aequales, superne gradatim breviores. *Flores* in spica racemosa supra folia collecti; quisque sub bractea subsessilis; bractee sessiles, ovatae, acutae, integrae nonnunquam violascentes, conspicue nervosae, decussatim imbricatae. *Corolla* luteola, superne violacea, 2 cm. longa; tubus inferus 2–3 mm. diam. superne ampliatus.

N.W. INDIA. On dry gravelly soil in N. Punjab and W. Kashmir at 1700–2100 m., 5 May, 1895, *Harriss* 16477; July, 1908, *Toppin* 456; May 1907 *Deane*; 4 May 1921, *R. R. and I. D. Stewart* 6180.

1099. *Apama Barberi* Gamble [Aristolochiaceae]; *A. siliquosae* Lamk. affinis, foliorum nervis basalibus brevioribus, caeteris numerosioribus, perianthii lobis apiculatis, stylo longiore differt.

Frutex erectus ramulis nodosis cinereis lenticellis multis oblongis praeditis. *Folia* lanceolata, acuminata, basi rotundata, supra lucida, subtus cinerea et minute puberula, 5–15 cm. longa, 3–5 cm. lata; nervorum par infimum vix ad mediam partem porrectum, nervi utrinque 6–10 prominentes et prope marginem conspicue arcuati, nervuli transversa et sicut etiam reticulatio conspicui; petiolus brevissimus vix 3 mm. longus. *Flores* ex axillis foliorum in cymis brevibus vix 5 mm. longis, bracteis parvis hispidis deciduis. *Perianthium* breviter campanulatum extus hispidum, lobis 3 obovatis, subito apiculatis, circiter 4 mm. longis. *Stamina* 9, filamentis liberis brevibus, antheris aequilongis, connectivo apice producto triangulari. *Stylus* columnaris, 1–2 mm. longus, in stigmatibus 6 subulatis

divisus. *Capsulae* glabrae, tetragonae, apice acuminatae, moniliformes, 3 cm. longae, sed specimina matura nondum reperta.

S. INDIA. Tinnevelly District, at Kannikatti, *Barber* 2981, 3093.

1100. **Piper Barberi** *Gamble* [Piperaceae]; species inter alias *Indicas* foliis pinnatim nerviis spicis masculis etiam longissime pedunculatis distinctissima.

Frutex verosimiliter scandens, ramulis teretibus glabris non multum ad nodos tumentibus. *Folia* lanceolata, longe acuminata, basi inaequaliter acuta, supra glabra, subtus minutissime punctata, marginibus subhyalinis siccitate undulatis, nervis utrinque circiter 5 curvatis et arcuatim intra marginem junctis, 10–14 cm. longa, 3–5 cm. lata; petiolus 1–1.5 cm. longus; stipulae latae, ocreatae, 1.2 cm. longae. *Spica* mascula 5–6 cm. longa, 2–3 mm. lata, pedunculo gracili 6–7 cm. longo glabro; spica faeminea ignota. *Bractaeae* orbiculares, peltatae, 1 mm. diametro. *Stamina* 2, filamentis 1 mm. longis, antheris ellipticis longitudinaliter fisis. *Fructus* adhuc ignotus.

S. INDIA. Tinnevelly District, at Kannikatti, May 1901, C. A. *Barber* 2991.

XLIV.—PASSERINA: TYPE SPECIMENS.

D. THODAY.

My attention has been called by the Director to the desirability of indicating the type specimens of new species which I omitted to do in my recent revision of the genus (*Kew Bull.* 1924, p. 146). In taking this opportunity of remedying the omission I have also listed for completeness and convenience the type specimens of the other species, and have supplied references to the Latin diagnoses of *P. rubra* and *P. Galpini* which I had overlooked owing to their having been published later than *Flora Capensis*, v. sect. ii.

1. **Passerina montana** *Thod.* in *Kew Bull.* 1924, p. 152.

Type: *J. M. Wood* 4036 (*Herb. Kew*), near Mooi River, 4000–5000 ft. Natal.

2. **P. glomerata** *Thunb.*

Type: "*P. glomerata* a (Lin. *Herb.*)" in *Herb. Thunberg*, Upsala.

3. **P. pendula** *Eckl. et Zeyh. ex Thod.*, l. c. p. 155.

Type: *Zeyher* 7381 (*Herb. Kew*), Zwartkops River, Uitenhage Div.

4. **P. Burchellii** *Thod.* l. c. p. 155.

Type: *Burchell* 7761 (*Herb. Kew*), mountain tops of Baviaans Kloof near Genadendal, Caledon Div.

5. ***P. rubra*** *C. H. Wright* in Kew Bull. 1915, p. 387.
Type : *Galpin* 4492 (Herb. Kew) Muiskraal near Garcias Pass, 1200 ft., Riversdale Div.
6. ***P. obtusifolia*** *Thod.*, 1. c. p. 157.
Type : *Rogers* 16703 (Herb. Kew), between Osplaats and Tunnel Sidings 2000–3000 ft., Worcester Div.
7. ***P. falcifolia*** *C. H. Wright*.
Type : *Drège* (Herb. Kew) Vanstaadesberg, stony places, 1000–2000 ft., near Uitenhage.
8. ***P. comosa*** *C. H. Wright*.
Type : *Drège* 2570, between Pedros Kloof and Leliefontein, 3000–4000 ft., Khamiesberg Range, Little Namaqualand.
9. ***P. filiformis*** *Linn.*
Type : “*P. filiformis*” in Herb. Linn.
10. ***P. Galpini*** *C. H. Wright* in Kew Bull. 1915, p. 386.
Type : *Galpin* 4491 (Herb. Kew) near Milkwoodfontein, 600 ft., Riversdale Div.
11. ***P. paludosa*** *Thod.*, 1. c. p. 161.
Type : *Thoday* 100 (Herb. Kew. acc. anno 1922).
12. ***P. vulgaris*** *Thod.*, 1. c. p. 162—*P. filiformis* var. *vulgaris* Meisn. in *Linnaea*, xiv. 399 (1840).
Type : *Drège* (Herb. Kew) Paarlberg, 1000–2000 ft. (one of the syntypes of *P. filiformis* var. *vulgaris* Meisn.).
13. ***P. paleacea*** *Wikstr.*
Type : “*Passerina glomerata* γ ” in Herb. Thunberg, Upsala. (see *Thoday* 1. c. p. 148). This synonym is quoted incorrectly as “*P. glomerata* α ” in *Thoday* 1. c. p. 164.
14. ***P. rigida*** *Wikstr.*
Type : “*Passerina glomerata* β ” in Herb. Thunberg, Upsala (see *Thoday* 1. c. p. 148).
15. ***P. ericoides*** *Linn.*
Type : “*Passerina ericoides*” in Herb. Linn.

Since the publication of the Revision I have seen the following additional specimens at Kew :

(1) Three specimens from Alexander Prior's herbarium recently incorporated.

P. falcifolia *C. H. Wright*, from Georgetown (George Div.).

P. vulgaris *Thod.*, from Hottentots Holland (Cape Div.)

P. rigida *Wikstr.*, from the Cape Flats (Cape Div.) with characteristic fruits and bracts.

(2) A specimen of *P. vulgaris* Thod. from the National Herbarium of Victoria, Melbourne: *J. R. Tovey* 4, Coode Island, Victoria. I am indebted to Mr. Sprague for the information that Coode Island was originally a portion of the south bank of the Yarra River and was cut off by the construction of a canal in 1886. It is chiefly used as a quarantine station for stock. Ships' ballast has been deposited on one part of it. Many aliens from South Africa and elsewhere have been recorded from the island. (Proc. Roy. Soc. Vict. xxii, p. 24, 1910; Victorian Naturalist xxviii, pp. 57-61, 1911; Proc. Roy. Soc. Vict. xxxv. p. 196, 1923, where this specimen is referred to as *Passerina filiformis*). Clearly the species is an alien, recently introduced into Victoria.

XLV.—MISCELLANEOUS NOTES.

MR. B. T. STEEMSON, B.A., has been appointed by the Secretary of State for the Colonies, Assistant Superintendent of Agriculture, Gold Coast.

WILLIAM BOTTING HEMSLEY.—This distinguished botanist, formerly Keeper of the Herbarium and Library of the Royal Botanic Gardens, Kew, died at Broadstairs on October 7. For some years he had been afflicted with paralysis, which had rendered him quite helpless, but his mind remained clear up to a few days before the end came, and the lively interest he felt in the welfare of his old friends and in everything that concerned his beloved Kew left him only when consciousness itself failed. His funeral took place at St. Peter's Church, Broadstairs, on October 11, and among those who attended it were Mr. A. D. Cotton and Dr. Otto Stapf, F.R.S., the present and former keepers of the Herbarium and Library. Mr. Cotton represented the Royal Botanic Gardens, Kew, and Dr. Stapf, an old and valued friend of Dr. Hemsley's, represented the Royal Society.

Dr. Hemsley was in many respects a remarkable man, and a complete account of his long and useful life and the work which, though confronted by many difficulties, he managed to accomplish, would form a large volume of important and interesting history. Here we are limited to a mere sketch of his career. Born at East Hoathly, a small village near Uckfield, Sussex, on December 29, 1843, he was apparently destined to become a gardener or nurseryman, and while still a boy obtained some experience in gardening operations under his father. Shortly before reaching the age of 17, he entered the Royal Botanic Gardens, Kew, as an Improver, having been recommended to Sir William Hooker by Mrs. Eardley Hall, daughter of Mr. William Borrer, the well-known British Botanist.

In his "Early reminiscences of Kew," published in the *Journal of the Kew Guild*, 1893, p. 31, Hemsley has given us a most entertaining description of his experiences in those far-away days. After spending a few months in the Gardens he was selected to do some temporary work in the Herbarium, where, as he tells us, he was placed under the kind, clever, conscientious Allan A. Black, whose promising career was so soon to be ended by death.

During the time spent in the Herbarium Hemsley gave so much satisfaction that in June, 1865, he was given a permanent appointment, succeeding Alexander Smith as Herbarium clerk. Two years later his health broke down and he was obliged to resign. This must have appeared to him then as a great calamity, but it proved instead to be a stroke of good fortune. His illness was serious and incapacitated him for a considerable time, but he at length recovered so far that he was able to return to the Herbarium as an independent worker, and it was during those years of freedom from official routine that he accomplished the work that established his reputation as a botanist, and which was duly recognised by the Royal Society by his election as a Fellow in 1889. In 1883 he rejoined the Herbarium staff as Assistant for India, then a part-time post, and in 1890 was readmitted into the Civil Service to take up the duties of Principal Assistant. On the retirement of Mr. J. G. Baker, Hemsley was appointed Keeper of the Herbarium and Library, and filled that office with distinction from January 13, 1899 till December 28, 1908, when, having reached the age limit, he retired.

Hemsley's earliest published work appeared in the first edition (1866) of that useful compilation, Lindley and Moore's "Treasury of Botany." In the following year he communicated a paper on the "Distribution of British Umbelliferae" to the *Journal of Botany*. Thereafter, with a few years' intermission due to his breakdown in health, his pen must have been nearly constantly employed. In the seventies he contributed largely to horticultural journals and produced his "Handbook of hardy trees, shrubs and herbaceous plants," which was based on Decaisne and Naudin's "Manuel de l'amateur des jardins"; this was published in 1873. Between 1880 and 1890 he must have worked at high pressure. In those years he wrote the "Report on the Botanical Results of the voyage of H.M.S. Challenger," a most valuable essay on insular floras, and the botanical portion of the "Biologia Centrali-Americana," edited by F. D. Godman and O. Salvin. Hemsley's election to the Fellowship of the Royal Society was no doubt largely due to the value of this work on the Mexican flora. In 1882 the admirable Catalogue of Miss North's Paintings, which Hemsley had prepared, was first published. In 1886 was issued the first part of the "Index Florae Sinensis," which, when completed in 1905, formed three thick volumes of the *Journal of the Linnean Society*. The name of Mr. F. B. Forbes is associated with that of Hemsley's in the authorship of this Index, and various botanists contributed to it.

It was, however, mainly Hemsley's work. He wrote or collaborated with others in writing papers on the floras of Afghanistan, Burma and Tibet. The *Rhamnaceae*, *Campanulaceae* and a part of the *Scrophulariaceae* in the "Flora of Tropical Africa" were worked out by Hemsley. The *Kew Bulletin*, Hooker's *Icones Plantarum*, and the *Botanical Magazine* received numerous contributions from him. Sir Joseph Hooker dedicated to him the *Botanical Magazine* for 1898, and on the title-pages of the volumes for 1903 and 1904 Hemsley's name is associated with Sir Joseph's. A noteworthy piece of work was his paper on *Julianiaceae*, a new natural family of plants established by Hemsley, which he communicated to the *Philosophical Transactions of the Royal Society*, series B, vol. 199, pp. 169-197, with some excellent drawings by Miss M. Smith.

It is impossible to mention here, even by the briefest of titles, all Dr. Hemsley's many and varied achievements as an author. They may be traced in the List of Kew Publications which appeared in the *Kew Bulletin*, 1897, pp. 1-84, and 1907, appendix v. Those of the years 1906 to 1914 are enumerated in the *International Catalogue of Scientific Literature*. His most important publication since 1914 is a *Flora of Aldabra* in which he received assistance from the Kew Staff; this appeared in the *Kew Bulletin*, 1919, pp. 108-153.

Hemsley's activities were not limited to authorship. In 1872-73 he was employed at Rothamsted by Mr. (afterwards Sir, J. B. Lawes to assist in the experiments on the mixed herbage of permanent meadow. During 1875 he was Lindley Librarian to the Royal Horticultural Society, and for a session in 1876 was Lecturer on Botany at St. Mary's Hospital Medical School.

Hemsley was elected an Associate of the Linnean Society in 1873 and in 1896, at his own request, the Society accorded him transfer to Fellowship. He was also an Honorary Member of the Natural History Society of Mexico, the Royal Horticultural Society (from which he received the Victoria Medal of Honour in Horticulture in 1909), the Royal Society of New South Wales, and the New Zealand Institute; also a Corresponding Member of the German Botanical Society. In 1913 he was given the honorary degree of LL.D. of the University of Aberdeen. This distinction afforded him great pleasure. It was not his lot to be sent as a youth to a great public school and a University, and in later life he said: "I have often felt the want of a University training, which no amount of study can replace."

As we are writing not only of a distinguished scientific man and of one who was a highly esteemed public servant, but also of an old friend who had a kindly, sensitive and refined nature, we may be permitted to say a few words concerning his family, and to allude to some of his sorrows, of which he had many and grievous. His wife survives him, but the delicate state of her health was for several years a source of anxiety to him, and it became so serious that she could not be by his side at his journey's end. His only

son Oliver, who, after a training at Kew and in the Royal Botanic Garden, Calcutta, was appointed Superintendent of the Government Gardens, Lahore, Punjab, and gave promise of doing remarkably well, died at the age of 30 in 1906. His only daughter, his capable and accomplished assistant in much of his later work, lost her husband, Mr. Edward H. Lovelock, after a short illness in 1914, which was a great grief to her father.

Many interesting particulars of Dr. Hemsley's life and work are given in the Journal of the Kew Guild, 1893, p. 31, and 1899, p. 1 (with portrait), the Journal of Horticulture, 1909, lviii, p. 6 (with portrait), and in the Gardeners' Chronicle, 1909, xlv, p. 381 (with portrait). In the last mentioned is an admirable appreciation of Hemsley by Sir William Thiselton-Dyer, under whom nearly the whole of his official life was spent, from which we quote the following :—

"We have laboured together in many undertakings of which he has borne the principal burden. And, looking back on a past which must reach to some 40 years, I recognise throughout the same retiring and unpushful disposition and modest diffidence which I well remember when we first met. These pages will meet the eye of many young men. They may well take note of the career of a man, without backing, and with nothing to start with but character and love of knowledge, whose early education must have been slender, and who throughout life had to struggle with ill-health. Yet he taught himself German from a colleague, and to write French and Latin fluently, and, in the most unassuming way, but with unwearying industry and courage, attained scientific distinction, and, within the limits of his science, a reputation which is cosmopolitan."

JAMES BRITTEN.—We have to record with regret the death of Mr. James Britten, the well-known botanical editor, who died suddenly at London, on the 8th October, 1924. He was born at Chelsea on the 3rd May, 1846, and early became attracted to the study of plants: he stated in a passing remark a few years ago that his use of Anne Pratt's books on the Flowering Plants and Ferns of Great Britain was "one of the pleasantest memories of his childhood," and in another passage, "one of my earliest botanical recollections is the finding of a specimen of *Aster Tripolium* by the Thames . . . I think about 1855," that would be when he was nine years old.

His earliest botanical publication seems to have been in 1863, when a note of his, "Rare and exotic plants at Kew Bridge, Surrey" was printed in the first volume of *The Journal of Botany, British and Foreign*, a publication whose editor he afterwards became for the long period of nearly forty-five years. In 1865 he removed to High Wycombe, where he edited two volumes of the *Quarterly Magazine of the Natural History of that town*, from 1865 to 1870. In 1869 he was appointed an Assistant in the

Herbarium of the Royal Botanic Gardens, Kew, and two years later he was transferred to the Botanical Department of the British Museum, then at Bloomsbury, where Henry Trimen was the Senior Assistant, whose acquaintance he had made some years earlier at the Society of Amateur Botanists. Britten was a frequent contributor to Hardwicke's Science Gossip from its commencement until he became editor of the Journal of Botany in 1880 in succession to Trimen, who left for Ceylon to take the position left vacant by the death of G. H. K. Thwaites.

Whilst his editorial duties were evidently a source of delight to him, and made his views and proclivities known to an intimate circle, he brought out certain other issues of an independent kind. Thus his "European Ferns" came out in 4to in 1879-81; an edition of W. Turner's "Names of Herbes" with modern names appeared in 1881; "The Young Collector's Handbook of Flowering Plants" in 1883; a reprint from the English Dialect Society's volume of 1880, as a treatise on old farming words, chiefly taken from the agricultural books written by William Ellis, a farmer at Little Gaddesden, in Hertfordshire. He also contributed appendixes to certain works of travellers, on the floras of Timor and East Africa. In conjunction with Robert Holland, Britten brought out a "Dictionary of English Plant-names" decidedly the fullest and best work of the kind, published in three parts from 1878 to 1886. His alliance with G. S. Boulger produced the valuable "A Biographical Index of British and Irish Botanists," 1893, with three supplements bringing the work down to 1907. (A revised edition is, I believe, quite ready to go to press.)

But the personality of James Britten was best displayed in his articles and editorial comments in the Journal of Botany. For many years he had made remarks on the Kew publications, and printed such paragraphs as this:—"After a suspension of nine months, our erratic little Kew contemporary has once more sprung into active life," etc. A striking point was made when the *Kew Bulletin* had fallen some months into arrear, though the Appendixes had been duly published, the remark being made that the periodical had apparently perished from appendicitis!

Britten retired from the British Museum in 1909 on completing 40 years in the public service. He was elected a Fellow of the Linnean Society on the 21st April, 1870.

B. D. J.

Macaranga from Fiji.—In the Journ. Linn. Soc., Bot. xliii. 38 (1915) I gave the name *Macaranga grandifolia* to a new species from Fiji. It was not till some time after the publication of the name and description that I found that Merrill in Philipp. Journ. Sc. Bot. 1912, VII. 394 (1913) had used the same combination for *Croton grandifolius* Blanco, transferring this to the genus *Macaranga*. Merrill's name stands, and for the Fiji plant the name ***Macaranga magna* Turrill** is here substituted for *M. grandifolia* Turrill non Merrill.

W. B. T.

Botanical Magazine.—The final part (Pt. iv) of Volume cxlix. was published on September 22nd and the volume is very fittingly dedicated by the Royal Horticultural Society "in admiration and gratitude" to the Rt. Hon. Sir Herbert Maxwell, Bt., "distinguished by knowledge and skill as a gardener and by grace and charm as a writer, a staunch friend of Horticulture and Forestry, an investigator in many fields, and withal a faithful servant of the Nation for long years."

The plants figured are *Philodendron teretipes* Sprague (t. 9013), from Colombia; *Rhododendron apodectum* Balf. f. & W. W. Smith (t. 9014), from the mountains of the Shweli-Salwin divide, Yunnan; *Dendrochilum uncatum* Reichb. f. (t. 9015), a native of the island of Luzon, Philippines; *Pieris taiwaiensis* Hayata (t. 9016), from Formosa; *Berberis morrisonensis* Hayata (t. 9017), also a native of Mount Morrison, Formosa; *Primula cardiophylla* Balf. f. & W. W. Smith (t. 9018), from Sikkim; *Corokia buddleioides* A. Cunn. (t. 9019), a native of the North Island, New Zealand; *Picea Glehnii* Masters (t. 9020), from Japan; *Viola elegantula* Schott (t. 9021), from the mountains of Bosnia to Central Albania; *Philadelphus Delavayi* L. Henry (t. 9022), from N.W. Yunnan and *Ouratea flava* Hutchinson & Dalziel (t. 9023), a shrub extending from Sierra Leone to Angola.

Tropical Plant Research Foundation.—Number 9 of the journal "Phytopathology" (1924) gives an account of the Tropical Plant Research Foundation which has recently been incorporated in the United States. The particular objects and business of the Foundation are to promote research for the advancement of knowledge of the plants and crops of the tropics; to conduct investigations in plant pathology, entomology, plant breeding, botany and forestry, horticulture and agronomy, and to publish the results thereof; and to establish and maintain such temporary or permanent stations and laboratories as may be necessary for the accomplishment of these objects, under the restrictions and regulations established in its bye-laws.

Brachystegia.—The two following corrections require to be made in "A Revision of Brachystegia" which appeared in *K.B.* 1923: Page 151, in lines 10 and 22 after *Swynnerton* 1028 add 'pro parte': Page 152, in lines 17 and 18 delete the reference to *Eyles* 813!

J. B. D.

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